## **IN THE CLAIMS:**

- 1. (Currently Amended) A method for selecting a coprocessor from a plurality of co-1 processors to process a packet-of a predetermined-size, the method comprising the steps 2 of: 3 determining the size of the packet; 4 determining a cost associated with the packet of that size, the cost representing a 5 load associated with processing the packet; 6 determining an anticipated load for each coprocessor in the plurality of coproces-7 sors using the cost; and 8 selecting the coprocessor from the plurality of coprocessors based on the antici-9 pated load. 10 2. (Original) The method of claim 1 wherein the step of determining a cost further com-1 prising the step of: 2
- 3. (Original) The method of claim 2 wherein the rate is stored in a lookup table.

calculating the cost using a rate associated with processing the packet.

- 4. (Original) The method of claim 2 wherein the step of calculating the cost further
- 2 comprising the step of:

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3	dividing the packet's size by the rate.
1	5. (Original) The method of claim 2 wherein the step of calculating the cost further
2	comprising the step of:
3	multiplying the packet's size by a multiplicative inverse of the rate.
1	6. (Original) The method of claim 1 wherein the step of determining a cost further com-
2	prising the step of:
3	applying the packet's size to a lookup table containing one or more cost values to
4	determine the cost.
1	7. (Original) The method of claim 1 wherein the step of determining an anticipated load
2	further comprising the step of:
3	adding the cost to a cumulative load associated with each coprocessor in the plu-
4	rality of coprocessors.
1	8. (Original) The method of claim 1 wherein the step of selecting the coprocessor fur-
2	ther comprising the step of:

selecting the coprocessor from a group of one or more coprocessors whose antici-

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pated load is a minimum load.

- 9. (Original) The method of claim 8 wherein the coprocessor is selected using a schedul-
- 2 ing algorithm.
- 1 10. (Original) The method of claim 1 wherein the step of selecting the coprocessor fur-
- ther comprising the step of:
- determining if a port associated with the packet is congested.
- 1 11. (Original) The method of claim 10 wherein the step of selecting the coprocessor fur-
- ther comprising the step of:
- selecting the coprocessor from a group of one or more coprocessors whose antici-
- 4 pated load is not a minimum load.
- 1 12. (Original) The method of claim 10 wherein the step of selecting the coprocessor fur-
- ther comprising the step of:
- selecting the coprocessor from a group of one or more coprocessors whose antici-
- 4 pated load is a minimum load.
- 1 13. (Original) The method of claim 1 further comprising the step of:
- incrementing a cumulative load associated with the selected coprocessor.
- 1 14. (Original) The method of claim 13 wherein the step of incrementing a cumulative
- 2 load further comprising the step of:

- adding the cost to the cumulative load.
- 15. (Original) The method of claim 1 further comprising the step of:
- decrementing a cumulative load associated with the selected coprocessor.
- 1 16. (Original) The method of claim 15 wherein the step of decrementing a cumulative
- 2 load further comprising the steps of:
- subtracting the cost from the cumulative load.
- 1 17. (Currently Amended) An apparatus for selecting a coprocessor from a plurality of
- 2 coprocessors to process a packet-of a predetermined size, the apparatus comprising:
- a memory containing one or more software routines, including a software routine
- 4 configured to determine the size of the packet, a cost associated with the packet of that
- size, the cost representing a load associated with processing the packet; and
- a processor configured to execute the software routines to determine an antici-
- 7 pated load for each coprocessor in the plurality of coprocessors using the cost and to se-
- lect the coprocessor from the plurality of coprocessors based on the anticipated load.
- 18. (Original) The apparatus of claim 17 further comprising:
- a data structure;
- wherein the cost is determined using information contained in the data structure.

- 1 19. (Original) The apparatus of claim 18 wherein the information contained in the data
- 2 structure includes the cost.
- 20. (Original) The apparatus of claim 18 wherein the information contained in the data
- structure includes a rate the coprocessor can process the packet.
- 1 21. (Currently Amended) An intermediate device configured to select a coprocessor
- 2 | from a plurality of coprocessors to process a packet-of-a predetermined size, the interme-
- diate device comprising:
- means for determining the size of the packet, a cost associated with the packet of
- that size, the cost representing a load associated with processing the packet;
- 6 means for determining an anticipated load for each coprocessor in the plurality of
- 7 coprocessors using the cost; and
- means for selecting the coprocessor based on the anticipated load.
- 22. (Currently Amended) A computer readable media comprising:
- the computer readable media containing computer executable instructions for execution
- in a processor for the practice of a method for selecting a coprocessor from a plurality
- of coprocessors to process a packet of a predetermined size, the method comprising the
- 5 | steps of:
- determining the size of the packet, a cost associated with the packet of that size,
- the cost representing a load associated with processing the packet;

8	determining an anticipated load for each coprocessor in the plurality of coproces
9	sors using the cost; and
10	selecting the coprocessor from the plurality of coprocessors based on the antici-
11	pated load.
1	23. (New) A method for selecting a processor for processing a packet, the method
2	comprising the steps of:

- determining the size of the packet;
- determining a cost associated with the packet of that size, the cost representing a
- s load associated with processing the packet;
- 6 determining an anticipated load for the processor using the cost of the packet if
- 7 processed by the processor;; and
- selecting the processor based on the anticipated load.
- 1 24. (New) The method of claim 23 wherein the step of determining a cost.comprises
- the step of calculating the cost using a rate associated with the processing of the packet;
- wherein the rate is stored in a lookup table.
- 1 25. (New) The method of claim 23 wherein the step of determining a cost further
- 2 comprises the step of applying the size of the packet to a lookup table containing cost
- 3 values for determining cost.

4